**B: SIX ELEMENT ANALYSIS (AS IS)**

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| Process | System Roles | | | | | |
| Human | Non-  Computing  Hardware | Computing  Hardware | Software | Database | Network  &  Communication |
| Mapping Course outcomes(COs) to Program Learning Outcomes (PLOs) | **UGC :**  1.Provides the manual of accreditation to higher authorities with stated PLOs  **Higher Authorities:**  1.Receive Accreditation Manual from UGC  2. Send the Accreditation Manual to the Department.  3. Directs Department to tell the faculties to design Course Outline and Course Assessment Reports.  **Department :**  1. Receive Accreditation Manual from Higher Authority.  2. Map Cos with PLOs.  3. Send the CO-PLO mapping to respected faculty.  **Faculty:**  1. Receive CO-PLO mapping from department.  2. List Course content and Outcomes.  3. Create a course plan based on CO-PLO mapping.  4. Continue the semester according to the course plan. | **Pen and paper:**  1. Is used to record brainstorming ideas.  **Board and marker:**  1.Is used to noting down the ideas | **Computer:**  1. Computers are used by faculty to produce softcopies of course results (COs) of certain courses in which they are skilled.  **Printer:**  1. Printing copies of the course results (COs). | **MS Word:**  1.Faculty uses MS Word to map the program learning results with full course contours and course assessment reports with course results (COs) (PLOs).  **Excel Sheet:**  1. Faculties use the Excel Sheet to correlate certain questions to specific course results for mid-term, final exams, and project work (COs). |  | **Internet & Email:**  1.To address crucial subjects relating to planning of course results for program learning outcomes, use the Internet and e-mails to communicate with UGC or other stakeholders.  **Others:**  1.To address key issues relating to the mapping courses, use phones or physical means with stakeholders for outcomes in the learning of programs. |
| Student Assessment | **Faculty** :  1. Create assessment as per course plan.  2. Assign students Assessments.  3. Receive completed answer script from students.  4. Evaluate the answer script.  **Student:**  1. Receive assessment from faculty.  2. Answer the assessment as assigned.  3. Return the answer script to faculty. | **Pen and paper:**  1. Use pen & paper to record physical paper data and marks in tabular format (hardcopies) | **Computer:**  1.Computers are able to generate soft copies of all evaluation data for certain courses | **Excel Sheet:**  1. Record the relevant evaluation data on Excel sheets and their final grades.  **IRAS :**  1.To view students and the registrar's office, upload the final grades of students to IRAS | **Department Storage:**  1. The departmental and registrar's offices may store records of student evaluation data and final grades for future reference.  **IRAS Database server:**  1. In order to record and retain student grade information, IRAS uses a server database | **Internet:**  1.In order to store the final grades, the Internet is needed to communicate with IRAS |
| **Creating & Submitting OBE Report** | **Faculty:**  1. Calculate the total marks received by each CO computing the marks received by mapping to COs for questions and/or further assessments.  2. Total percentage calculations receivable on the OBE Mark sheet, for each Course Results (COs).  3. State if a student has a certain CO (if CO percentage is greater than or equal to 40).  4. Report whether a PLO for an associated CO has been given to a student.  5. Make a table to assess how many students could receive a specific CO and PLO as well as other documents including facts and data.  6. Report for design course evaluation using course outlines, course content and course results. Design course evaluation report.  7. Send the final version of the OBE Mark sheet to the Department.  **Department:**  1. Send the OBE mark sheet, Course Assessment Report and other reports to the Registrar’s Office.  2. Store the OBE Mark sheet and Course Assessment Report to Higher Authority. | **Pen and paper:**  1. OBE mark sheet stored in hardcopy. Additional markings may be made to further separate between students | **Computer/ Phone:**  1.Uses computers to make softcopies of the OBE Mark sheet and Course Assessment Reports.  **Printer:**  1. Print hardcopies of final versions of the OBE Mark sheets and Course Assessment Reports. | **Coded Excel sheet:**  1. Faculty /Course Coordinator uses automated excel sheets to calculate the student’s success/ failure in achieving PLOs.  **MS Word:**  1. Used to make course assessment reports. | **Department Storage:**  1. Records of students’ assessment data and final grades will be saved in the department for future reference.  **Registrar’s Office Storage:**  1. OBE Mark sheets, Course Assessment Reports and other documents submitted by the department is stored for future reference. | **Internet/Mail:**  1**.** An Online platform (such as Google Sheets) may be used for processing the OBE assessment data spreadsheet. |
| **Preview Grades and Transcripts** | **Students:**  1. Log into IRAS.  2. Search semester wise result for intended semester.  3. See grades for specific semesters.  3. Download transcript through browser into hard disk.  **Registrar’s Office:**  1. Access IRAS.  2. View students’ grades if and when it’s necessary.  3. Download their transcripts | **Pen and Paper**  1. Transcripts can be printed on paper with tabulated transcripts. During applications and other paperwork, Hardcopy is the primary source of truth. | **Computer/**  **Phone:**  1. Used for accessing IRAS.  **Printer:**  1. Used to print the tabulated transcripts. | **IRAS:**  1. Storesletter grades of each completed course  2. Provides the online user interfacefor viewing grades and transcripts | **Registrar’s Office:**  1. Student information is kept in admin in hardcopies for future reference.  **IRAS Database:**  1. A Database Management Service is used to store, maintain, edit and receive student grades information in IRAS.  **Web Server:**  1. User interface and website pages are served using a remote web server | **Internet/ Email** 1. In order to store the final grades, the Internet is needed to communicate with IRAS.  2. Softcopies may be mailed to the stakeholders and students. |
| **Student and Faculty account details** | **Admin :**  1. The registration processes collect information for new students.  2. New faculty information is received from Higher Authorities.  3. Creates an account for students and Faculties.  4.If necessary for student or Faculty, customize some account details | **Pen and Paper:**  1. May be used for writing/ copying student/ faculty’s vital login information for account creation. | **Computer:**  1. Used for accessing and adding/editing data to IRAS. | **IRAS:**  1. User interface is provided to interact with student/faculty data. | **Registrar’s Office Storage:**  1. Student/ Faculty information is kept in admin in hardcopies for future reference.  **IRAS Database Server:**  1. A Database Management Service is used to store, maintain, edit and receive student/faculty information in IRAS.  **Web Server:**  1. User interface and website pages are served using a remote web server. | **Internet:**  1. The internet is needed to interact with IRAS to store account information on a remote database server.  2. User interface  and website pages are served using internet access. |